

USSN: 10/521,693  
Attorney Docket: I-2002.011 US  
Response to Office Action of July 16, 2007

**Amendments to the Claims:**

Claims 1-23 (Canceled).

24. **(Currently amended):** A diagnostic kit for detecting antibodies to a Brachyspira hyodysenteriae lipoprotein having the amino acid sequence of SEQ ID NO:2, comprising a *Brachyspira hyodysenteriae* lipoprotein[[,]] having the amino acid sequence of SEQ ID NO:2.

Claims 25 -28 (Canceled).

29. **(Currently amended):** [[The]] An isolated and purified immunogenic *Brachyspira hyodysenteriae* lipoprotein of 61 kD, as measured by sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) having the amino acid sequence of SEQ ID NO:2.

Claims 30 – 32 (Canceled).

33. **(Currently amended):** An immunogenic composition comprising [[a]] an isolated and purified *Brachyspira hyodysenteriae* lipoprotein having the amino acid sequence of SEQ ID NO: 2 and a pharmaceutically acceptable carrier.

Claims 34-47 (Canceled).